ABBYY FlexiCapture 12 Release 4 Update 3 Release Notes

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Introduction

About this document

This document describes the features that have been implemented in ABBYY FlexiCapture 12 Release 4 and subsequent updates.

About the product

ABBYY FlexiCapture 12 is the latest version of ABBYY FlexiCapture, a highly scalable and flexible data capture platform for creating region-specific and vertical data capture solutions.

Installing ABBYY FlexiCapture 12

ABBYY FlexiCapture 12 can be installed on the same computer where ABBYY FlexiCapture 10 or 11 is already installed. Please refer to the ABBYY FlexiCapture 12 System Administrator's Guide for installation instructions.

Upgrading from earlier versions

ABBYY FlexiCapture 12 may be installed on the same computer where ABBYY FlexiCapture 10 or 11 is already installed, but you cannot use the setup wizard to upgrade your copy of ABBYY FlexiCapture 10 or 11 to ABBYY FlexiCapture 12.

ABBYY FlexiCapture 12 Release 4 can be used as an upgrade if you have ABBYY FlexiCapture 12 Release 1, 2 or 3 (with any updates) installed on your computer. The earlier release will be removed and Release 4 will be installed instead.

You can use ABBYY FlexiCapture and ABBYY FlexiLayout Studio projects as well as FlexiLayouts created in earlier versions of the program. If you have documents already loaded into the system, we recommend that you first complete the processing of these documents and only then migrate to ABBYY FlexiCapture 12. When you open an ABBYY FlexiCapture or ABBYY FlexiLayout Studio project created in an earlier version of the program, it will be converted to the ABBYY FlexiCapture 12 format. Once a project is converted to the new format, it can no longer be opened in an earlier version.

A detailed description of the upgrade procedure can be found in the System Administrator's Guide.

OCR Technologies v. 16

ABBYY FlexiCapture 12 Release 4 uses a new version of OCR Technologies (v. 16), delivering a better overall quality of OCR compared to FlexiCapture 12 Release 3 and earlier versions.

Licensing

For ABBYY FlexiCapture 12 Release 4, you need a serial number generated specifically for ABBYY FlexiCapture 12. Serial numbers generated for ABBYY FlexiCapture 12 Release 1, 2 or 3 (with any updates) can also be used for Release 4.

Serial numbers for previous versions of ABBYY FlexiCapture cannot be used for ABBYY FlexiCapture 12.

UI languages

The ABBYY FlexiCapture 12 Release 4 user interface is available in the following languages: English, German, French, Spanish, Korean, Japanese, Czech, Serbian (Latin script), Portuguese (Brazil), Polish, Chinese Simplified, Russian, Hungarian, and Italian.

Notes:

   The web stations are available in all of the above listed languages except Serbian. The web stations are also available in Chinese Traditional.
   FlexiLayout Studio is only available in English, German, and Japanese.
   FormDesigner is only available in English and Russian.
   FCAdminTools is only available in English.

Technical information

Release	Part #	Build #	Installer build #	OCRT build #	Release date
Release 4 Update 3	1299/71	12.0.4.910	917309	16.3.163.9	5/24/2023

NEW FEATURES

1. Improvements in log management

1.1. Added API to download event and security logs in Administration and Monitoring Console

In ABBYY FlexiCapture 12 Release 4 Update 3, an API to download logs has been added. You can use this Web API to download logs and security logs. The parameters of the API methods are identical to those used for creating logs via the Administration and Monitoring Console GUI. For a detailed description of the API methods, see the [Using Web API to download logs](#) section in online help.

1.2. Automatic cleanup for Security Event Logs

Beginning with ABBYY FlexiCapture 12 Release 4 Update 3, automatic cleanup can be enabled for Security Event Logs. With this option enabled, Security Event Log entries older than 3 years will be automatically removed from the database. For more details, see the [Automatic database cleanup](#) section in online help.

2. ABBYY FlexiCapture for Enterprises

2.1. Ability to create Processing Station groups

The multitenancy feature enables several users to use ABBYY FlexiCapture independently from one another. Beginning with ABBYY FlexiCapture 12 Release 4 Update 3, you can also isolate different tenants from one another at task level. To do so, in the Processing Server Monitor, create required Processing Station groups and then assign a desired group to each new tenant you create. Now each tenant's tasks will be processed only using its assigned group of Processing Stations.

Using Processing Station groups, you can:

- Separate one tenant's tasks from those of other tenants and assign more Processing Stations to the separated tenant to speed up processing.

- Keep the tasks of a high-load tenant separate from those of the other tenants so that they remain unaffected.

- Assign specific Processing Stations to specific tenants to keep the tenants completely separate.

For more details, see the following articles:

- [Processing Server](#) – on how to create Processing Station groups.

- [Creating a new tenant](#) – on how to specify a group of Processing Stations for a specific tenant.

2.2. Administrator can train field extraction on Processing Stations instead of the administrator's machine

Administrators can train ABBYY FlexiCapture to determine the position of simple fields and recurring groups on a page of a structured or a semi-structured document. The training process can consume a lot of time and computer resources. Beginning with ABBYY FlexiCapture 12 Release 4 Update 3, the administrator can send a training batch to a Processing Station for training. To do this, the administrator should select the **Send for Training** command on the shortcut menu of the batch instead of the **Train** command. Before sending a training batch to a Processing Station, please make sure that:

- At least one Processing Station has been added to the Processing Server.

- The project has been uploaded to the server.

For more details, see [Field extraction training done by the administrator](#).

2.3. Option to use subfolders in Hot Folder paths specified as environment variables

ABBYY FlexiCapture allows using environment variables for specifying the path to an input folder with source images. Previously, if a user chose to use an environment variable, the user could not specify a subfolder in the path. Beginning with ABBYY FlexiCapture 12 Release 4 Update 3, users can specify a subfolder after the environment variable as follows: <variable name>/<subfolder name>.

2.4. FCAdminTools: added /CopyDefault parameter for CopyBatchType command

When creating a new project, you can use the CopyBatchType command to copy batch types from your existing projects. However, besides batch types, you way want to copy general, workflow, image processing, recognition, verification, and export settings, as well as handlers and .NET reference properties. Beginning with ABBYY FlexiCapture 12 Release 4 Update 3, the CopyBatchType command includes a new parameter, /**CopyDefault**, which copies batch settings from another project into your default batch.

Example of use:
CopyBatchType /Source="https://FCSRV/1/SingleEntryPoint" /Target=D:\Projects\SingleEntryPoint /SourceU=user /SourceP=password /CopyDefault – Running this command will copy the settings of the default batch in the source project into the default batch in the target project.

For more details, see CopyBatchType.

2.5. FCAdminTools: added FindHotFolders command

In ABBYY FlexiCapture 12 Release 4 Update 3, a new command, **FindHotFolders**, has been added to FCAdminTools, which allows the administrator to get a list of import profiles. You can find import profiles for a certain project, tenant or server. The found import profiles will be displayed in the following format:

Project '<*project name*>' (Project ID) in tenant '<*tenant name*>', profile '<*name of the import profile*>', Hot Folder path '<*path to the HotFolder*>', update interval <*xxx*>, enabled/disabled,

where <xxx> is the time between import attempts in seconds (or 0 if updates are disabled).

Example of use:
FindHotFolders /Server="https://sample.server.net"/Cert=< certificate thumbprint> /Project=SingleEntryPoint /U=username /P=password

For more details, see FindHotFolders.

3. ABBYY FlexiCapture web applications

3.1. "Forgot password" option on login page

When connecting to ABBYY FlexiCapture Web stations, a login page is displayed. To log in to the system, a user name and a password are required. Beginning with ABBYY FlexiCapture 12 Release 4 Update 3, you can recover a forgotten password. To do this, click the **Forgot password** link, enter your user name, and click the **Recovery** button. An e-mail message with a link to recover your password will be sent to the e-mail address associated with the specified user name.

3.2. Ability to search text in recognized documents on Web Verification Station

Occasionally, ABBYY FlexiCapture may detect field regions incorrectly. As a result, the values of the misdetected fields will also be incorrect. The verification operator will need to locate the misdetected fields in the document and draw their regions manually. In some cases, the verification operator will know next to what key words or phrases to look for the required field. In ABBYY FlexiCapture 12 Release 4 Update 3, ability to search text in recognized documents has been added on the Web Verification Station, allowing verification operators to quickly find necessary key words or phrases.

4. General improvements

4.1. Handwritten text recognition technology now available for German, French, and Spanish.

Earlier versions of ABBYY FlexiCapture could only recognize printed and hand-printed text. With the addition of this new technology, the program can now also recognize handwritten text. In FlexiCapture 12 Release 4 Update 3, handwritten text recognition is available for the English, German, French, and Spanish languages.

5. ABBYY FlexiCapture for Invoices in P2P and O2C solutions

5.1. Better processing performance for documents with lots of line items

In FlexiCapture 12 Release 4 Update 3, a new set of technologies has been introduced to address performance issues when processing large documents with lots of line items on them. These technologies are only available for the Invoice Document Definition and will only be applied when the following requirements are met:

1. Document consists of more than 30 pages.

2. Document has been classified as "Invoice", "Commercial Invoice" or "Purchase Order" prior to applying the corresponding Document Definition, or one of such Document Definitions is the only one available in the given batch type and/or project.

5.2. Updated Receipts projects

In FlexiCapture 12 Release 4 Update 3, out-of-the-box Receipts projects got an overhaul, introducing a new pre-trained model for receipts capture, providing a better recognition and extraction quality, as well as bringing new fields and processing rules.

New Receipts projects can be used and trained very much like their predecessors; however, your existing Receipts projects will not automatically receive the updated model, field set, and rules. To start benefiting from the update, you have to create a new Receipts project from the project creation menu on the Project Setup Station.

While you can continue using your old Receipt projects, you will no longer be able to create old-style Receipts projects – starting from Release 4 Update 3, only updated Receipts projects can be created on the Project Setup Station.

6. Known issues

1. Recognition logs may be hard to interpret by non-developers when the new technologies are used for processing line items.

Bug fixes

Request	Summary
502419, 458895	Some projects located on a sever were not visible from Project Setup Station
530791	Some characters with diacritics were shifted to the right when recognizing texts in Thai.
522155	A user had to re-enter credentials while working on Web Verification Station.
530241	Penetration testing. Vulnerability: Stored DOM-Based XSS.
530357	Can't add MS Graph API or IMAP import profiles with OAuth 2.0 using different email addresses

502551	A "Driver is busy" error occurred while initializing the ISIS driver for a USB scanner.
537722	An error starting with "ERR_TRS_EXCEPTION_IN_SEARCH c:\users\..." occurred after changing the BU during the verification.
524164	An error occurred in the Administration and Monitoring Console when attempting to delete tenants.
522009	An "Invalid Object Name "Arbeitskarten" error occurred when exporting or trying to assign fields to external database.
529837	A "Violation of PRIMARY KEY constraint PK_«A9D091F_4088EA3B8C$48AD6'. Cannot insert duplicate key in object dbo.PrincipalIds'" error occurred after upgrade from FlexiCapture 12 Release 2 to FlexiCapture 12 Release 4 Update 2.
533168, 526428	Encoding problem in the Administration and Monitoring Console. Special symbols were represented as their corresponding codes. FCTools.ShowMessage(" < > : \' ") was shown as Document 1: Page 1 (2): & lt; & gt; : & #39;.
515672	In some cases, the task priority drop-down list was empty when sending a task to another stage on Web Verification Station.
515947	A "Sharing Violation" error occurred when recognizing documents in some cases.
512779	"Continue Line Items" feature didn't work for Commercial Invoices on Web Verification Station if Business Unit and/or Vendor were not specified.
521762	When "Editing" an existing SSO configuration and a new certificate was added the old one was not replaced.
505824	Issues with "Put" methods when using WebDAV.
521808	Multiple IMAP with OAuth import profiles could not be configured using the same Windows user.
519281	Training tasks failed in some cases with no meaningful error message.
517927	An "IPE D:\Build\TeamAgent_work\9\s\Awl\Src\MenuAwl.cpp, 254" error occurred when exporting a trained FlexiLayout for field extraction training batches after upgrading project from FC12.0.3.4222 to FC12.0.4.803.
523343	There was a limit on the number of displayed characters in text fields on Web Verification Station.
524136	Automatic Task Receive mode did not work on Web Verification Station.
522724, 522308, 522064, 522690,	No training layout was attached to a training batch after updating a project from 12.0.4.734 to 12.0.4.812

522583, 522364, 521934	
513476	The following vulnerability has been fixed: CVSS 6.9 (MEDIUM): FUNCTIONALITY ACCESSIBLE WITHOUT SUFFICIENT AUTHORISATION
507369	An "Access Denied" error occurred when Processing Station had incorrect user permissions in the database.
507042	The time needed for checking rules for a project with 1000+ batch types has been reduced on Web Verification Station.
526199, 533450, 506682	An "IPE "..\DurationalState.h, 77" error occurred during recognition on Processing Station.
508252	An "HTTP 500, status message: undefined. Error code: fetchDocumentDataError" error occurred when using dataset lookup on Web Verification Station.
451404, 495927	An unexpected error occurred while closing a FlexiCapture task.
503988	An "IPE D:\Build\TeamAgent_work\7\s\0\OCRT\DAForms\DAForms\FlexibleTemplateGeneration\LineItemsTraining.Line.cpp, 464" error sometimes occurred during recognition.
503008	Database deadlock on updating batch statistics and the locking of the related task.
511283	Incorrect capture of checkboxes.
505988	Checkmarks in a group were assigned random selection values for a group with no actual selection.
500922	"notHandledInternalError" on Web Verification Station when scrolling documents of 20 and more pages up or down.
503988	IPE LineItemsTraining.Line.cpp, 464 / 466.
497136	Remote procedure calls failed when training an NLP batch. Diagnostic Message: 950(0x000006BE) 4030(0x000006BE).
496317, 487256	Checkmarks were recognized incorrectly on some documents after upgrading to FlexiCapture 12 Release 4.
539233	FCTools.CurrentUserSession.UserName (Script Rule) could store a value from a previous task.
538689	Web Verification Station showed HTML tags inside fields.

523150, 522471, 520608	"Hand-printed" text type did not work when used together with "Typographic" text type in "Advanced" recognition settings.
527771	Security Event Log showed the role name as "Unknown" instead of the actual name when creating a role in a project uploaded to the server: "Permission added Project: Test1, BatchType: (Default), Role: Unknown(1001)."
484959	IPE D:\Build\TeamAgent_work\2\s\0\OCRT\PdfTools\Components\PdfTools.Rasterizator.Pdfium\Src\Pdfium Rasterizator.cpp, 458
453958	Inability to export reports from the Administration and Monitoring Console.
511424	Most of the checkmark groups in a FlexiCapture project were wrongly recognized as "Multiple Selection."
537935	Poor recognition of handwritten text in Advanced > Hand-printed mode.
506233	Internal program error: D:\Build\TeamAgent_work\5\s\0\OCRT\DocumentProcessing\DocumentProcessing\Src\BlockTemplate.inl, 47. at ABBYY.FlexiCapture.IDocument.Sav
470596	Trained line items failed to be extracted after upgrading to the latest release of FlexiCapture 12.
391645	Some fields were not recognized.
396800	The letter "O" was not recognized when it was a part of an IBAN.
538124	Field order was not preserved when exporting labeling in FCAdminTools.
496317, 487256	Checkmarks were recognized incorrectly on some documents after upgrading to FlexiCapture 12 Release 4.
534944	Rule error on Web Verification Station when attempting to get batch registration parameters.
510791	Error "An attempt was made to access < File in paged memory> past its end" when attempting to upgrade a project.
541051	Incorrect Japanese translation of the priorities list on Web Verification Station.
538840	App Servers consumed too much CPU resources.
506261	Non-recognizable blocks lead to an error when applying a FlexiLayout in FlexiCapture: "The task failed after the final attempt to execute its subtask failed."
507751, 505143	Excessive memory consumption when recognizing some documents.

448805	Web Verification Station: database lookup filled the last instance of a repeating group.
503641	"Complete Task" hotkey worked even when the corresponding button was disabled.
456486	FCAdminTools: When copying all batch types using the CopyBatchType command, their names became "BatchType<N>."
495927	Deadlocks when adding an editing session.
426116	Column order was incorrect when exporting multiple documents into a single XLSX file.
479896	Some documents with a large number of pages could not be processed and went to the "Exceptions" folder.
499550	Internal program error: E:\TfsBuildAgent_work\1\s\Build\FineObjects\Inc\Object.h, 344 on Verification Station.
483033	"License consumption per project" report was aggregated by weeks even if month aggregation was chosen.
421528	The following error occurred during JSON export: "Export to raw json: Internal program error: E:\TfsBuildAgent_work\25\s\Build\FlexiCapture\Export\Src\JsonExporter.cpp, 1058."
521349, 411222, 288885	Invalid barcode generation in FormDesigner.
517470, 484925	Reporting Service: "EditingSecondsCount" did not show the exact time it took to edit a document.
540663	MS SQL issue on Web Verification Station: When postponing tasks in the Verification queue, the following error occurred: "Cannot insert the value NULL into column 'Id', table '@selectedBatch'; column does not allow nulls..."
535861	Deadlocks after upgrading to the latest release of FlexiCapture 12.
465960	The installation kit showed incorrect "space required" for some of the components.
456539	Invoices: The "Total Amount" filed was not recognized on some documents when using "Auto" recognition mode.
443798	Differences in the level of section titles when there were several multi-page and single-page sections in a Document Definition
451647	AbbyyZLib did not support files bigger than 2 GB.
451549	Web Verification Station: Filtering did not work for postponed tasks.

525174	When there were two identical Database Check rules with different sources, only the first lookup was shown even if its rule was disabled.
460546	FlexiLayout Studio: Region rendering slowed down and sometimes froze when there were too many regions on a document.
493922	Sometimes export to Searchable PDF did not create a text layer outside of the field regions.
439733	Sometimes the following error occurred when training a classifier: "Morphology dictionary for the Dutch (Belgian) language was not found."
494484	Exported files were named {empty value} instead of the source filename.
537722	Invoices: Error MSG_WORD_IS_TOO_SHORT when filling Vendor data with short values.
472466	Error when exporting documents with repeating groups when using the "Save document images" option.
465974	Tenant's authorization window UI was distorted when typing in the form.
495927, 503008	Deadlocks when adding a lock on a batch and deleting a session.
474306	"Training failed. The RPC server is unavailable" error when training an NLP training batch.
507226	Some e-mail bodies could not be converted to PDF (dsie_***.zip)
518672, 497288	Web Verification Station: Dataset vendor search worked differently after upgrading to the latest release of FlexiCapture 12.
468093	Incorrect localization of an e-mail notification.
441088	FlexiLayout Studio: OCR did not work on some documents when "Prefer PDF text layer if available" recognition mode was selected.
482519	Order number was not matched with "Auto" recognition mode.
476889	Incorrect checkmark recognition on some documents after upgrading to the latest release of FlexiCapture 12.
414328	Sometimes an NLP field was not recognized.
479481	Data Type Field Settings are not saved and reset to default settings
445562	On some documents, field regions were not aligned with the extracted text.
545444, 546185,	The setup program asked for .Net Core 3.1 during the installation process even when it was already installed.

546353, 538157	
544512	Could not upload projects created in older version of FlexiCapture 12 into the latest release.
495734, 499507	The "Allow multiple selection" option did not work at all when disabled in the data properties of checkmark groups instead of merely displaying a warning.
542088	Reporting Service data was sometimes missing.
505060	Users were sometimes redirected back to the login page once logged in.
544512	Some projects created in an older version of FlexiCapture 12 could not be uploaded to the server.
545609	Mistakes in German localization.
541051	Mistakes in Japanese localization.
538689	Web Verification Station. Fields were populated with HTML tags in some cases.
538884	Passwords could be set for users without following all the requirements.
534944	Web Verification Station. A rule error occurred when attempting to get batch registration parameters.
530791	Recognized Thai diacritics were shifted to the right.
511979	"Could not load binary data" error occurred on some documents.
524136	Web Verification Station. Automatic Task Receive mode did not work when exploring task queues.